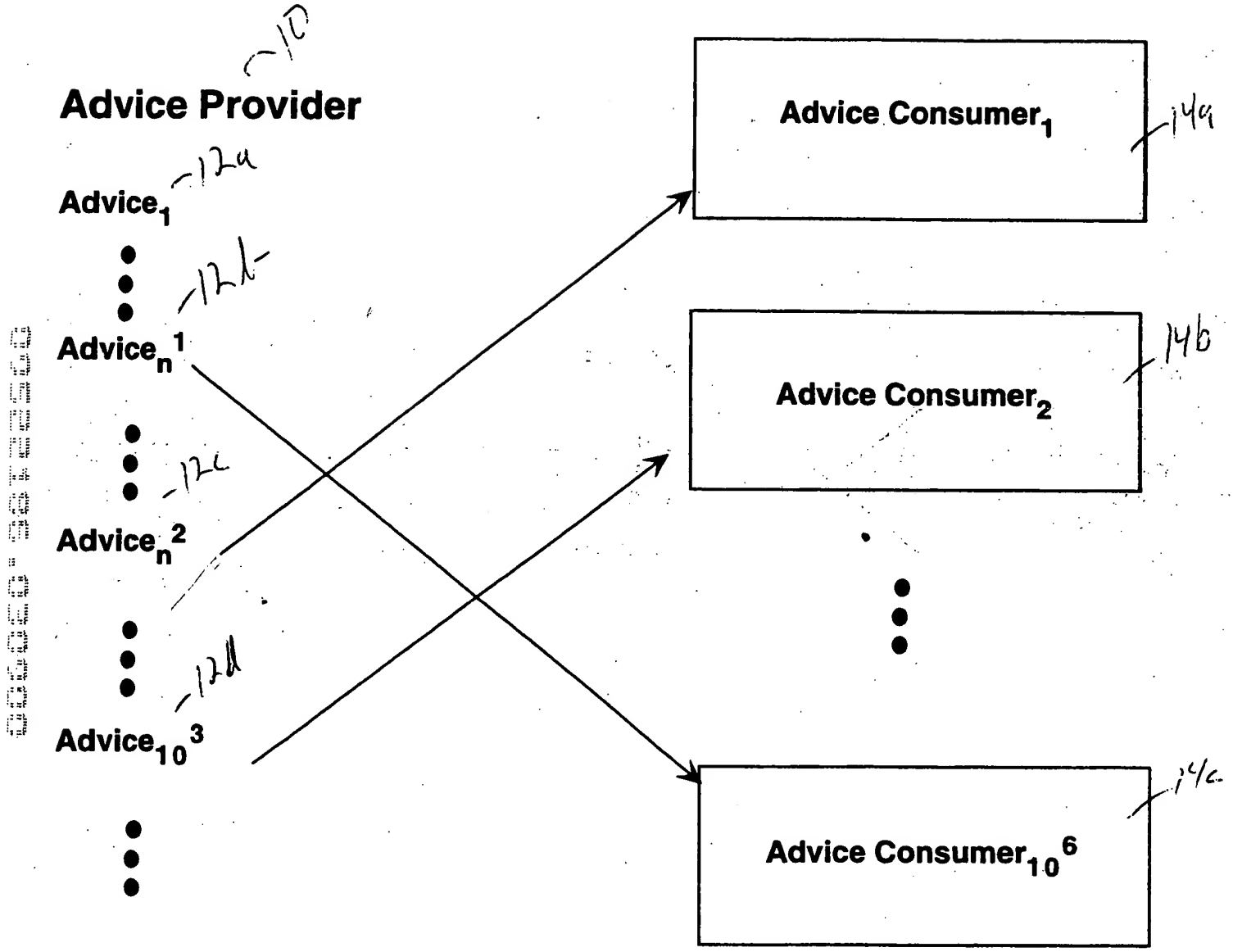

10
Advice Provider
Advice$_1$
12a
Advice$_n$^{1}
12b
Advice$_n$^{2}
12c
Advice$_{10}$^{3}
12d
Advice Consumer$_1$
14a
Advice Consumer$_2$
14b
Advice Consumer$_{10}$^{6}
14c

Fig. 1

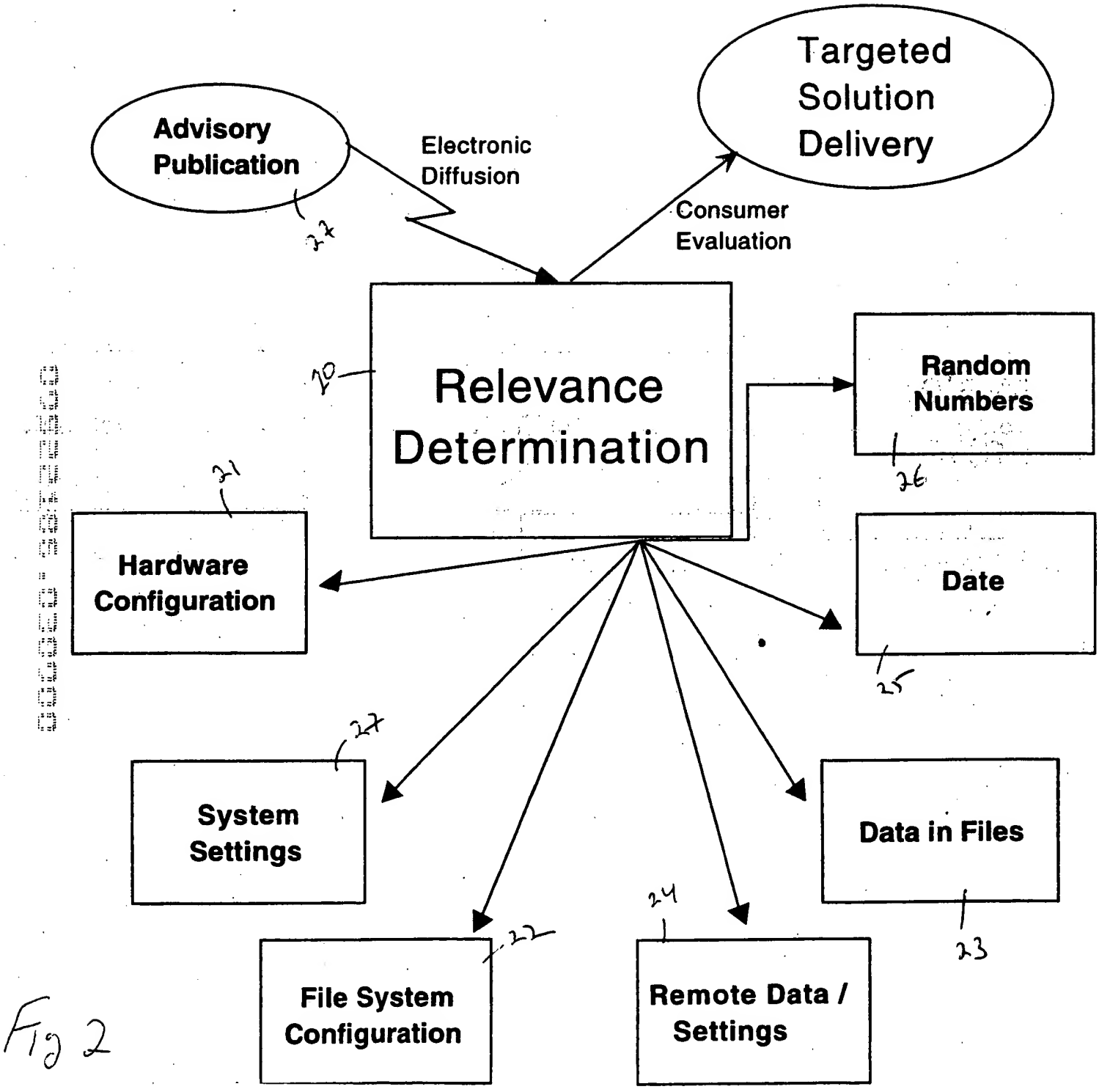

Targeted Solution Delivery
Advisory Publication
Electronic Diffusion
Consumer Evaluation
22
20
Relevance Determination
Random Numbers
26
21
Hardware Configuration
Date
25
27
System Settings
Data in Files
24
22
23
File System Configuration
Remote Data / Settings

Fig 2

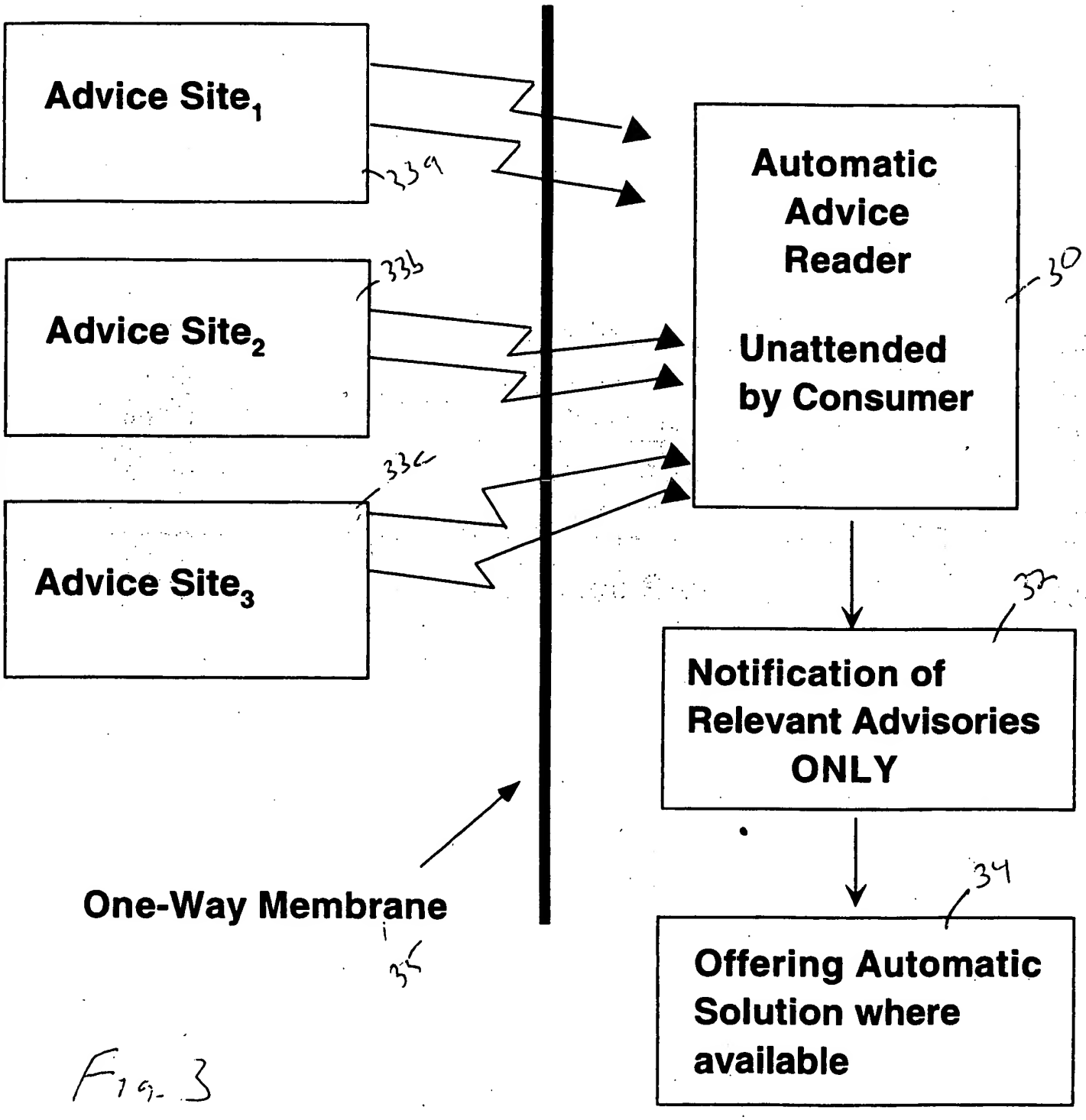

Advice Site$_1$
Advice Site$_2$
Advice Site$_3$
33a
33b
33c
Automatic Advice Reader
Unattended by Consumer
30
Notification of Relevant Advisories ONLY
32
Offering Automatic Solution where available
34
One-Way Membrane
35

Fig. 3

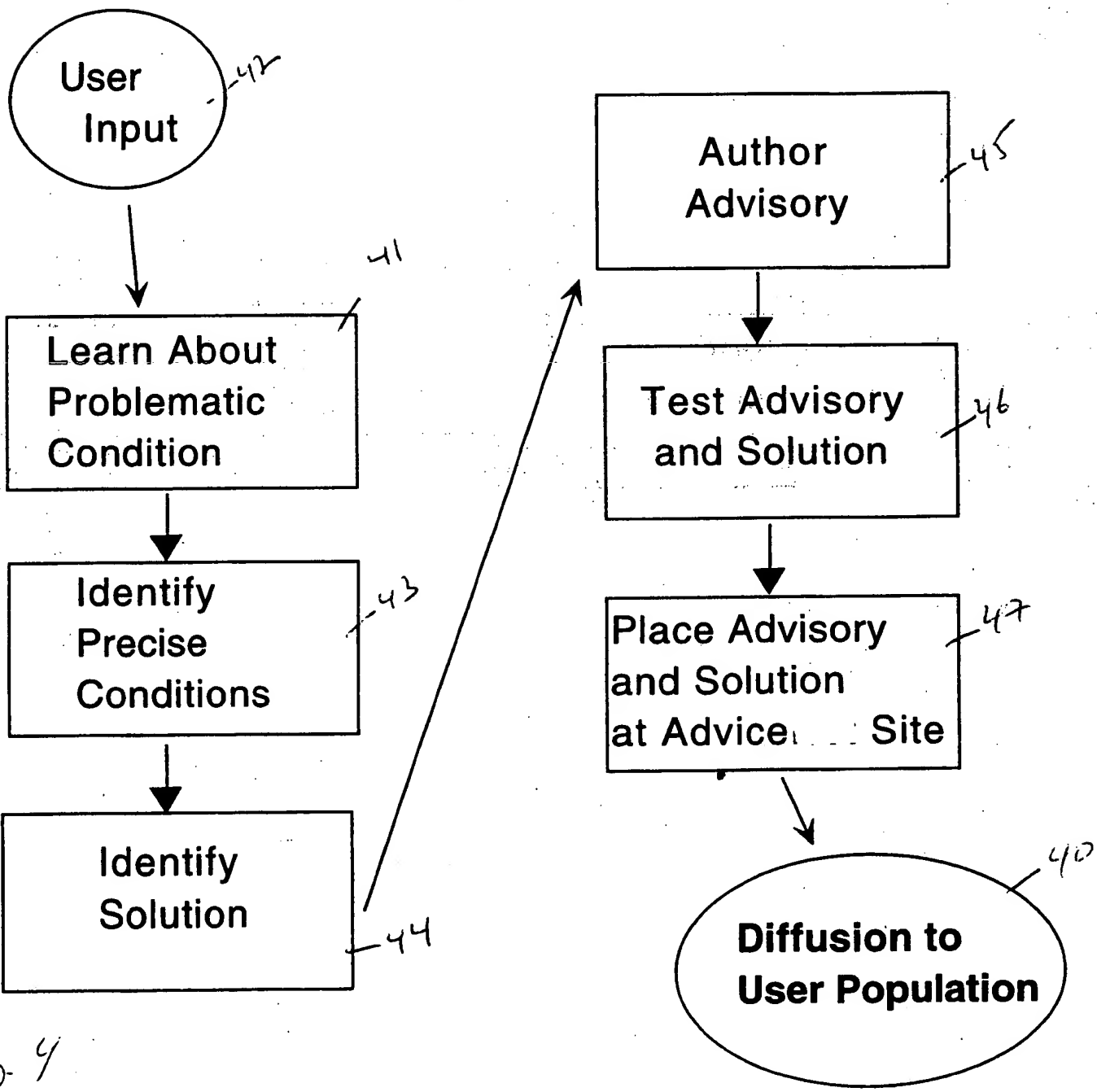

User Input
42
Learn About Problematic Condition
41
Identify Precise Conditions
43
Identify Solution
44
Author Advisory
45
Test Advisory and Solution
46
Place Advisory and Solution at Advice Site
47
Diffusion to User Population
40

Fig. 4

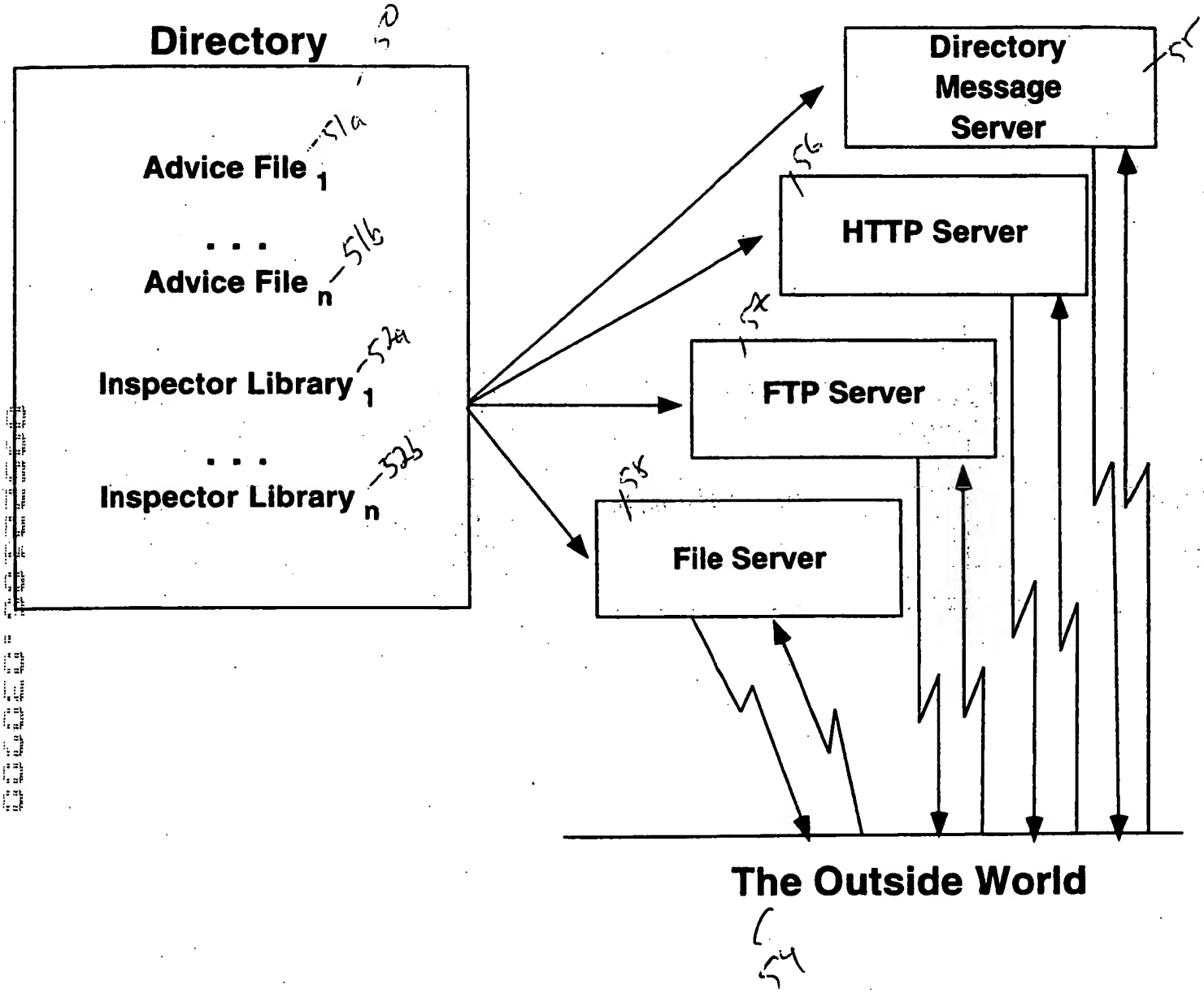

Directory
50
Advice File 1
51a
. . .
Advice File n
51b
Inspector Library 1
52a
. . .
Inspector Library n
52b
Directory Message Server
54
HTTP Server
56
FTP Server
58
File Server
The Outside World

Fig. 5

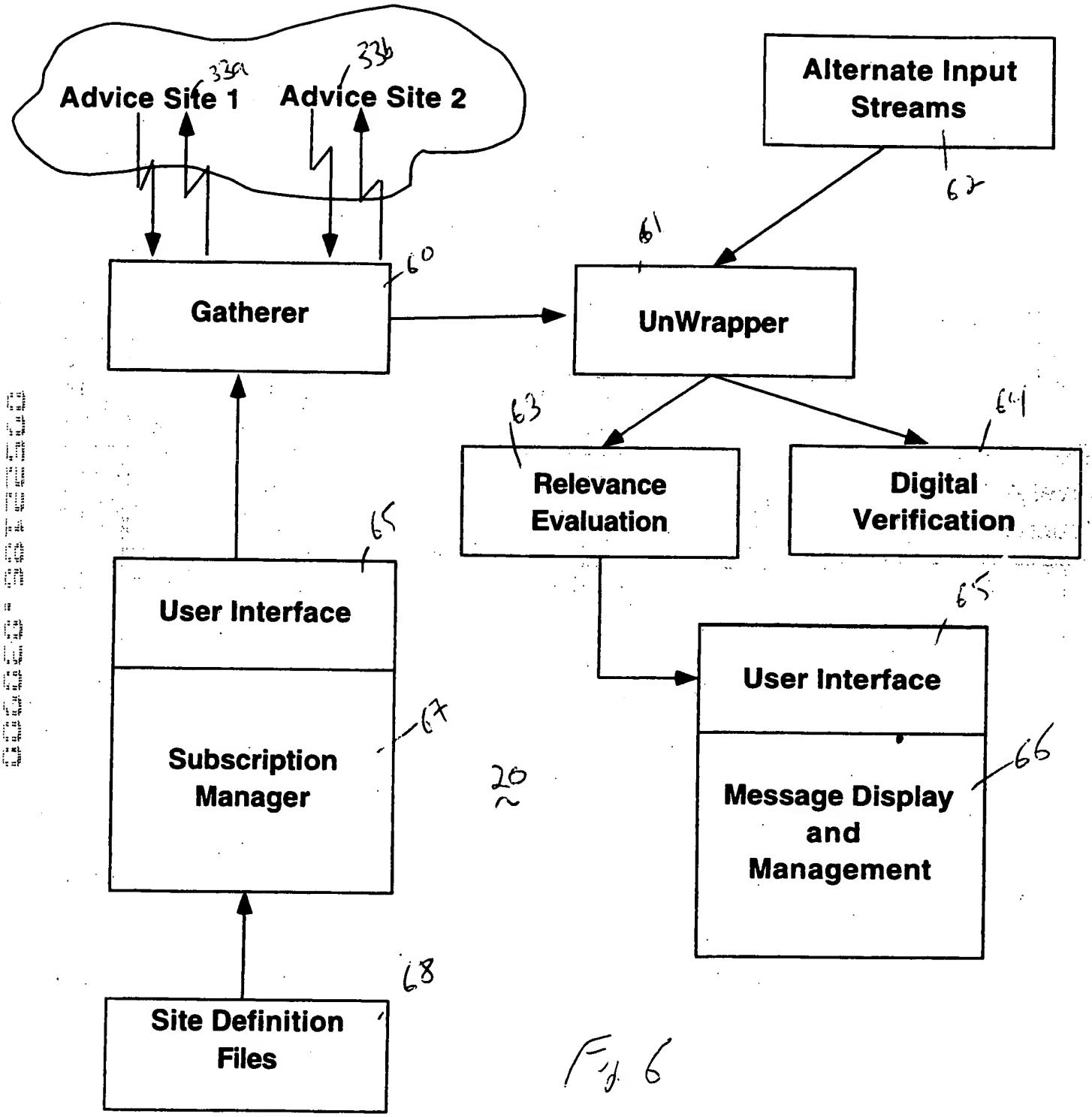

Advice Site 1
Advice Site 2
Alternate Input Streams
Gatherer
UnWrapper
Relevance Evaluation
Digital Verification
User Interface
Subscription Manager
User Interface
Message Display and Management
Site Definition Files
60
61
62
63
64
65
66
67
68
20

Fig. 6

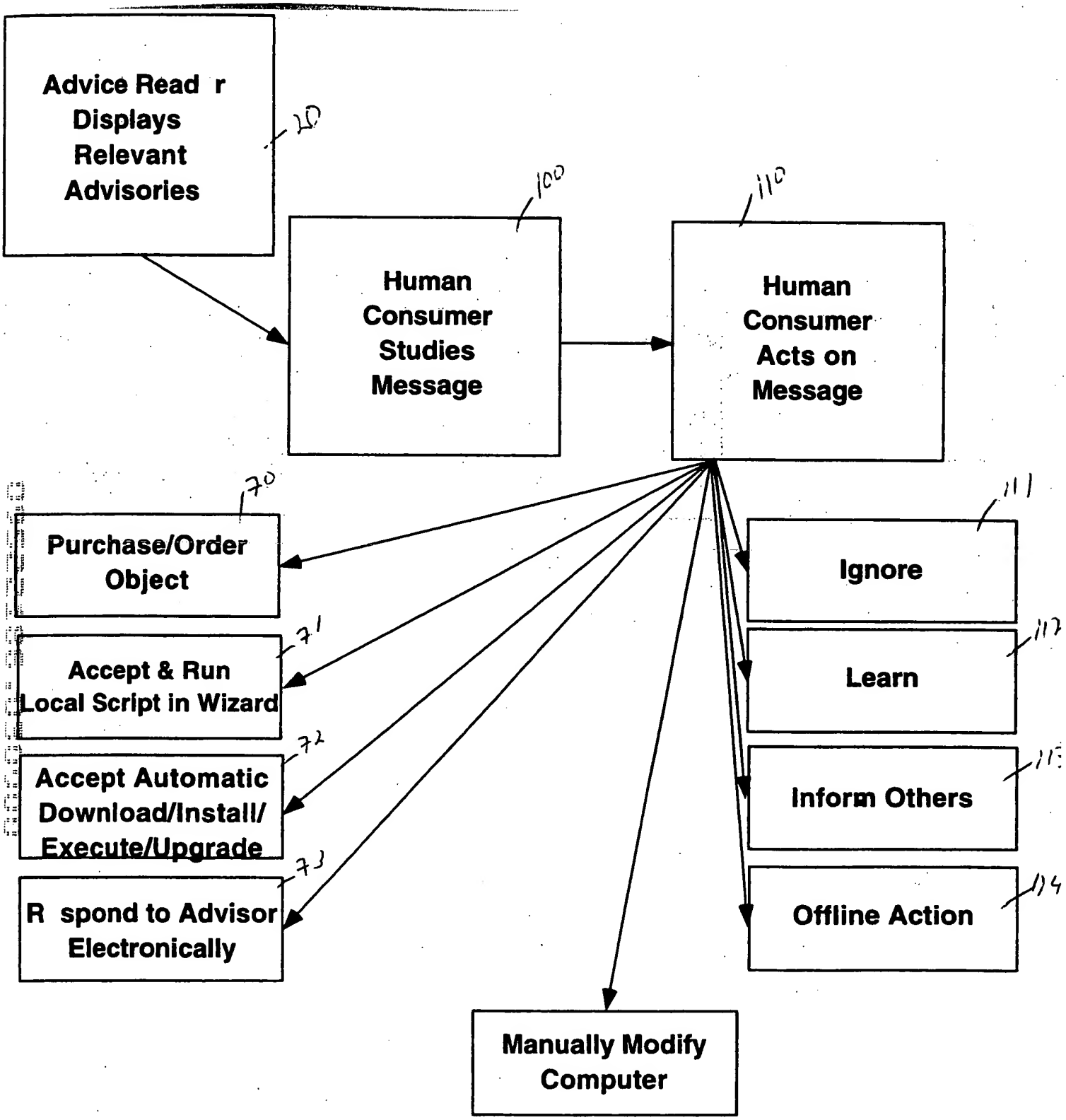
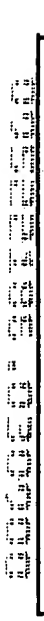

Advice Read r Displays Relevant Advisories
10
100
Human Consumer Studies Message
110
Human Consumer Acts on Message
70
Purchase/Order Object
71
Accept & Run Local Script in Wizard
72
Accept Automatic Download/Install/ Execute/Upgrade
73
R spond to Advisor Electronically
111
Ignore
112
Learn
113
Inform Others
114
Offline Action
Manually Modify Computer

Fig 7

DATE: SAT MAR 21 1998 17:54:06 -0800
FROM: JOE ADVISOR <ja@advisori s.com>
MIME-Version 1.0
ORGANIZATION: Universe Communications, Inc.
SUBJECT: You need to upgrade Advice Reader
RELEVANT-WHEN: version of file "Advice.exe"
< 5.0
CONTENT-TYPE: text/html; charset us=ascii

<HTML><BODY>
Click here to <A HREF = "http://advisories.com/a"
download </A> the latest version of Advice Reader.
</BODY></HTML>



SUBJECT LINE -82

RELEVANCE CLAUSE - 80

MESSAGE BODY -81

F-28

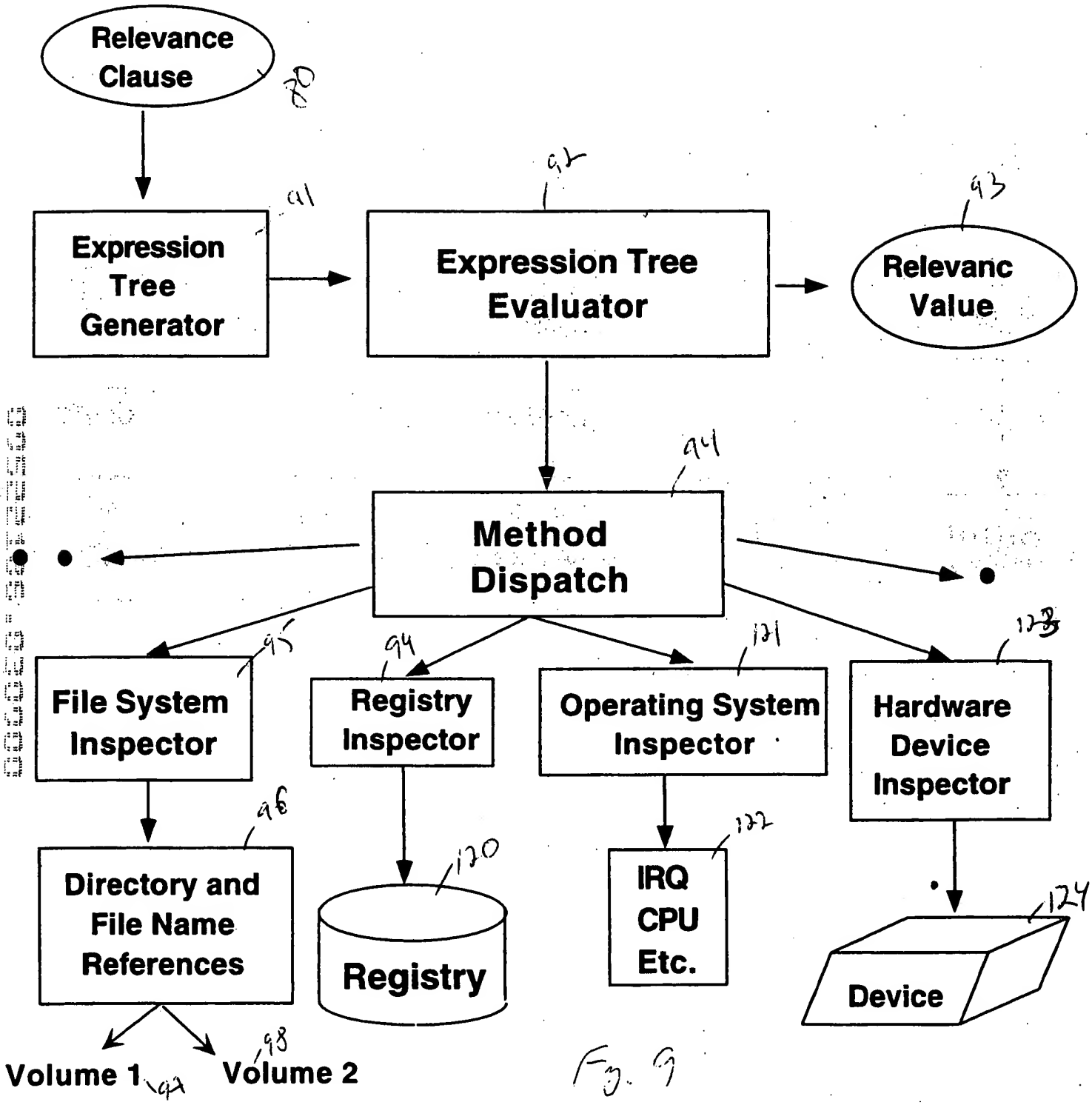

Relevance Clause
80
Expression Tree Generator
91
Expression Tree Evaluator
92
Relevanc Value
93
Method Dispatch
94
File System Inspector
95
Registry Inspector
94
Operating System Inspector
121
Hardware Device Inspector
123
Directory and File Name References
96
Registry
120
IRQ CPU Etc.
122
Device
124
Volume 1
97
Volume 2
98

Fig. 9

Expression:

(not exists File 'System' of System Folder) or
(not exists File 'MacTCP DNR' of System Folder)

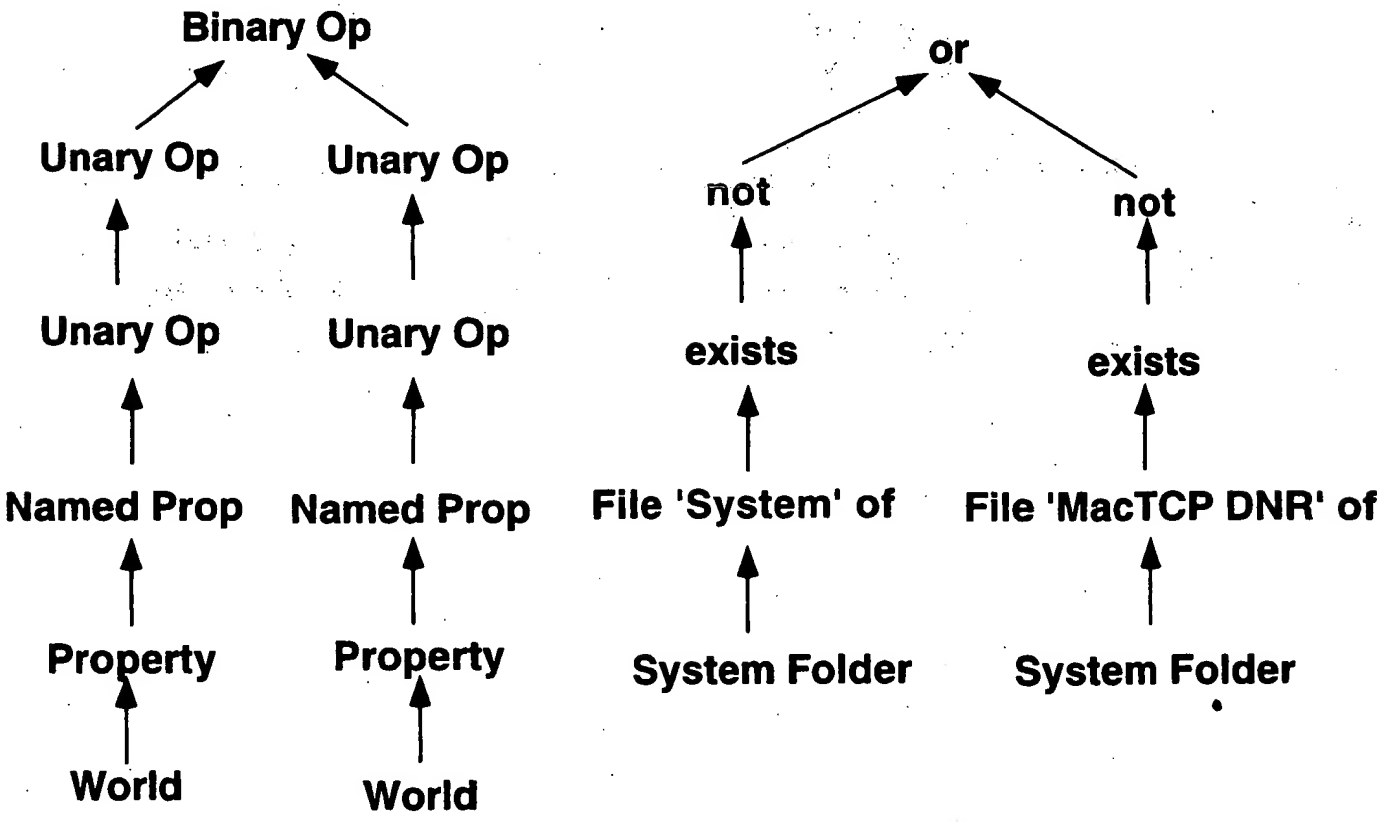


Fig 10

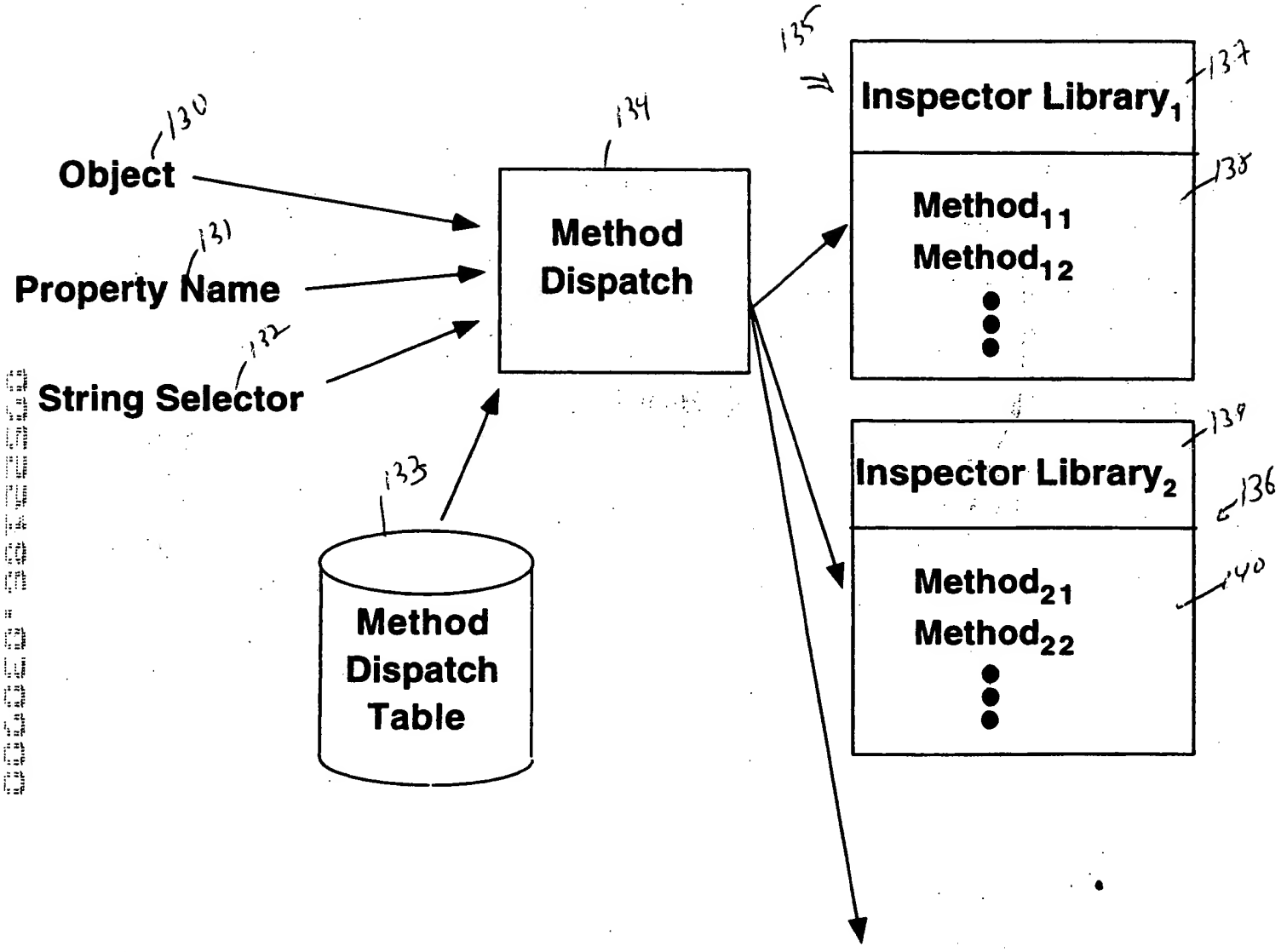

Object
130
Property Name
131
String Selector
132
Method Dispatch Table
133
Method Dispatch
134
135
Inspector Library$_1$
137
Method$_{11}$
Method$_{12}$
138
Inspector Library$_2$
139
136
Method$_{21}$
Method$_{22}$
140

Fig 11

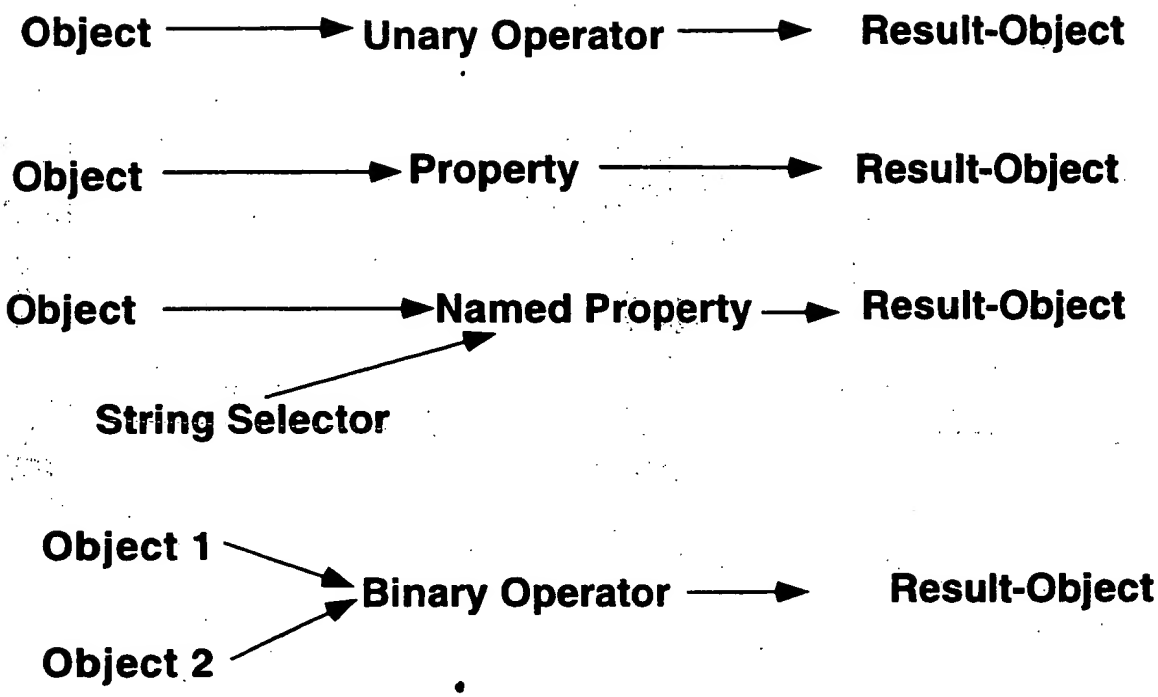
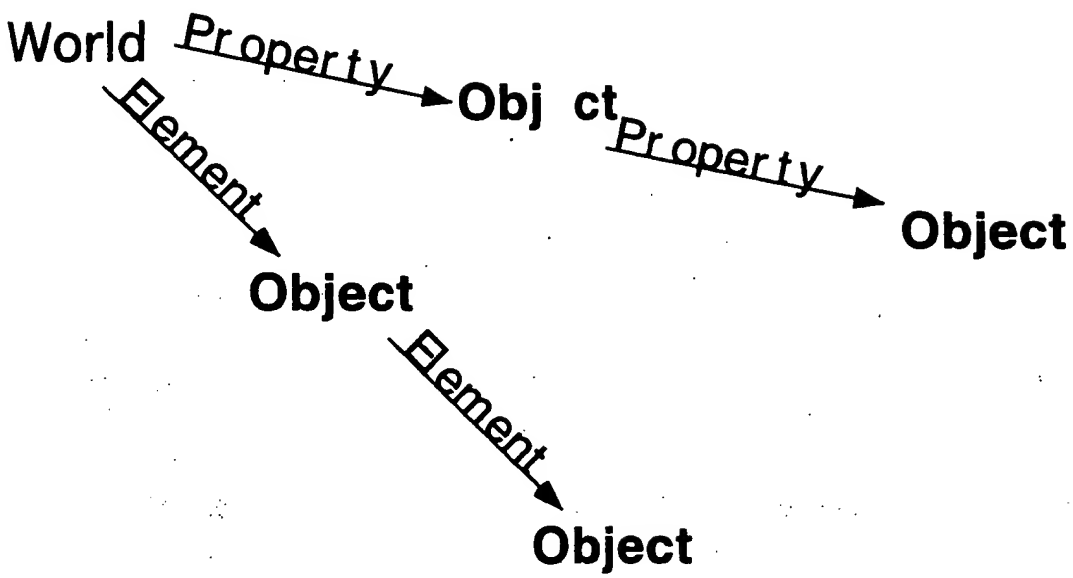
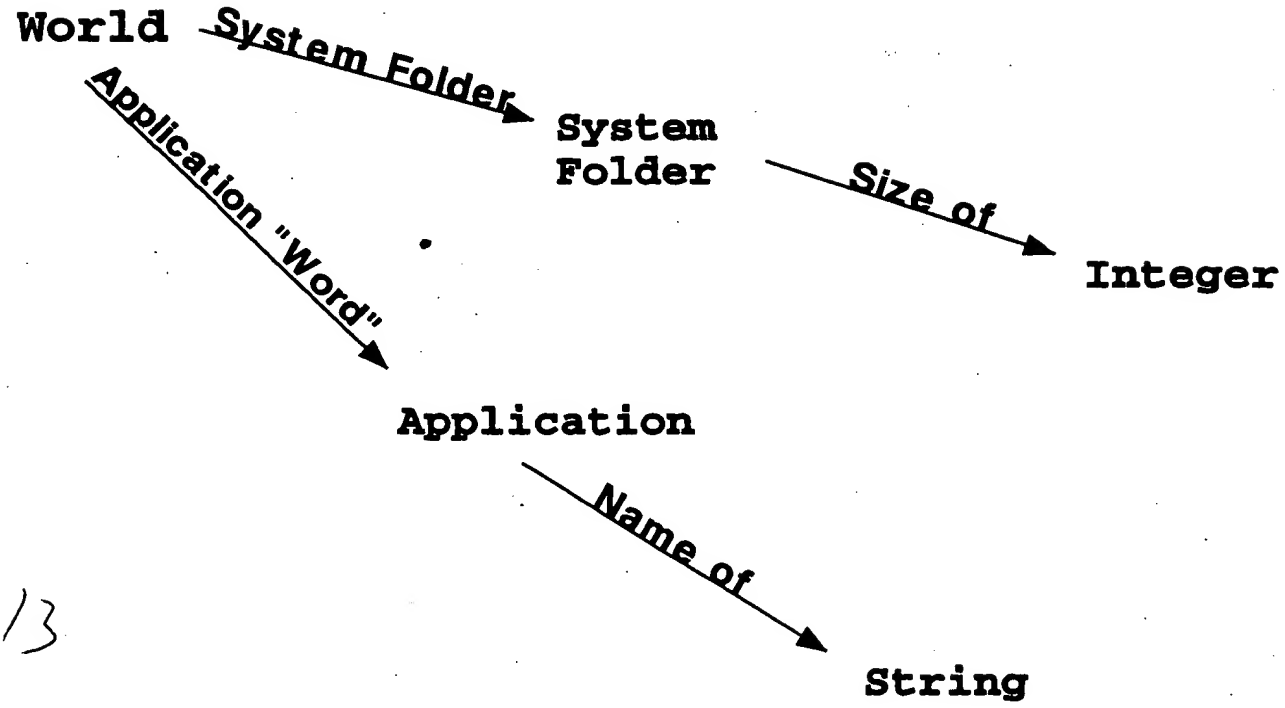

Object
Unary Operator
Result-Object
Object
Property
Result-Object
Object
Named Property
Result-Object
String Selector
Object 1
Object 2
Binary Operator
Result-Object

Fig 12


World
Property
Obj ct
Property
Object
Element
Object
Element
Object


World
System Folder
System Folder
Size of
Integer
Application "Word"
Application
Name of
String

F-2 13

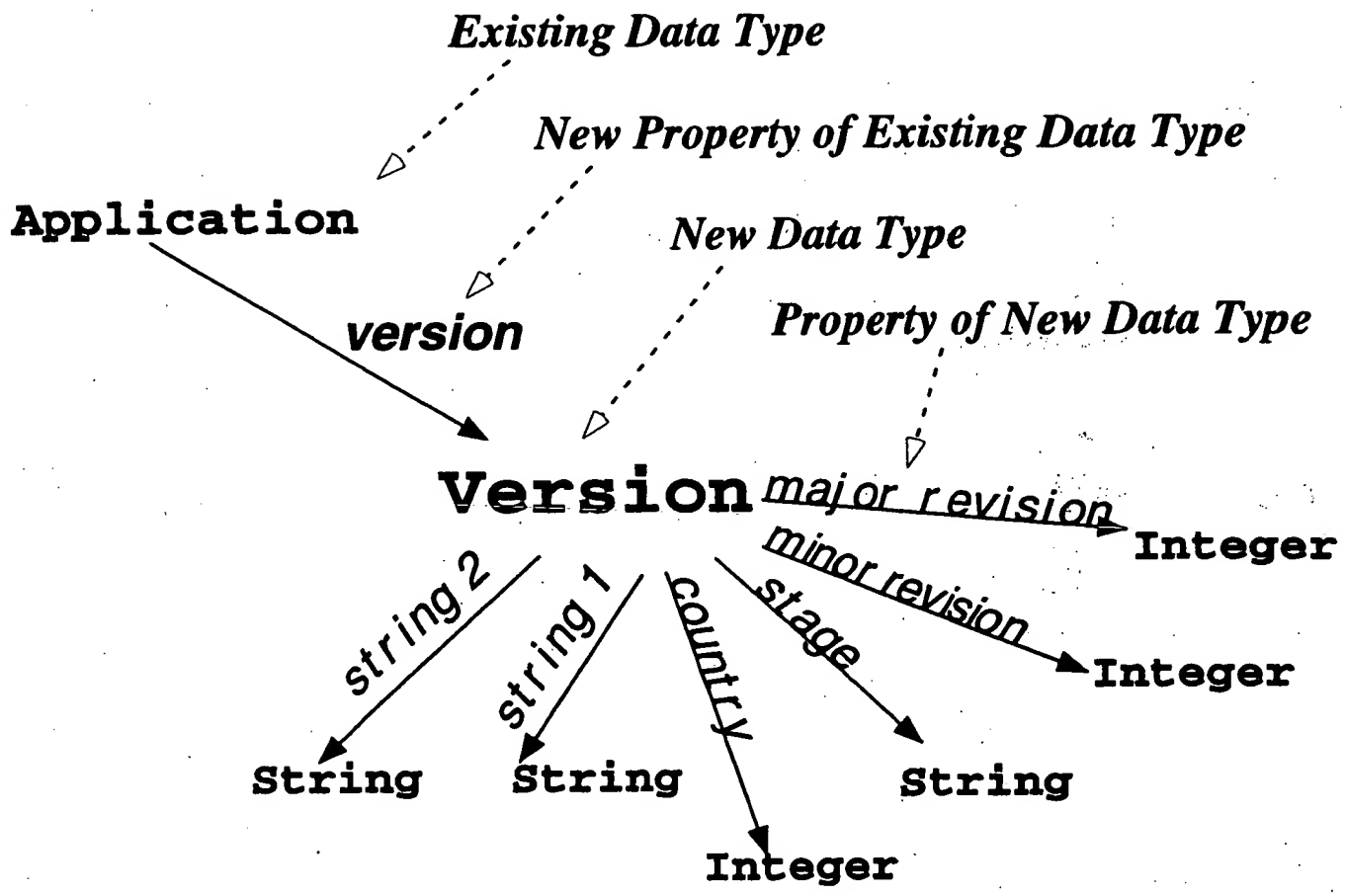

Existing Data Type
New Property of Existing Data Type
Application
New Data Type
version
Property of New Data Type
Version
major revision
Integer
minor revision
Integer
string 2
string 1
country
stage
String
String
String
Integer

Fig. 14

Inspector Library

Macintosh "Version" Inspector

(version, "major revision", maj-rev-meth)
(version, "minor revision", min-rev-meth)
(version, "stage", stage-meth)
(version, "country", country-meth)
(version, "string 1", string 1-meth)
(version, "string 2", string 2-meth)

Phrase Definitions
Data type associations
Method associations

METHOD maj-rev-meth;
METHOD min-rev-meth;
METHOD stage-meth;
METHOD country-meth;
METHOD string 1-meth;
METHOD string 2-meth;

Method Definitions

Fig. 15

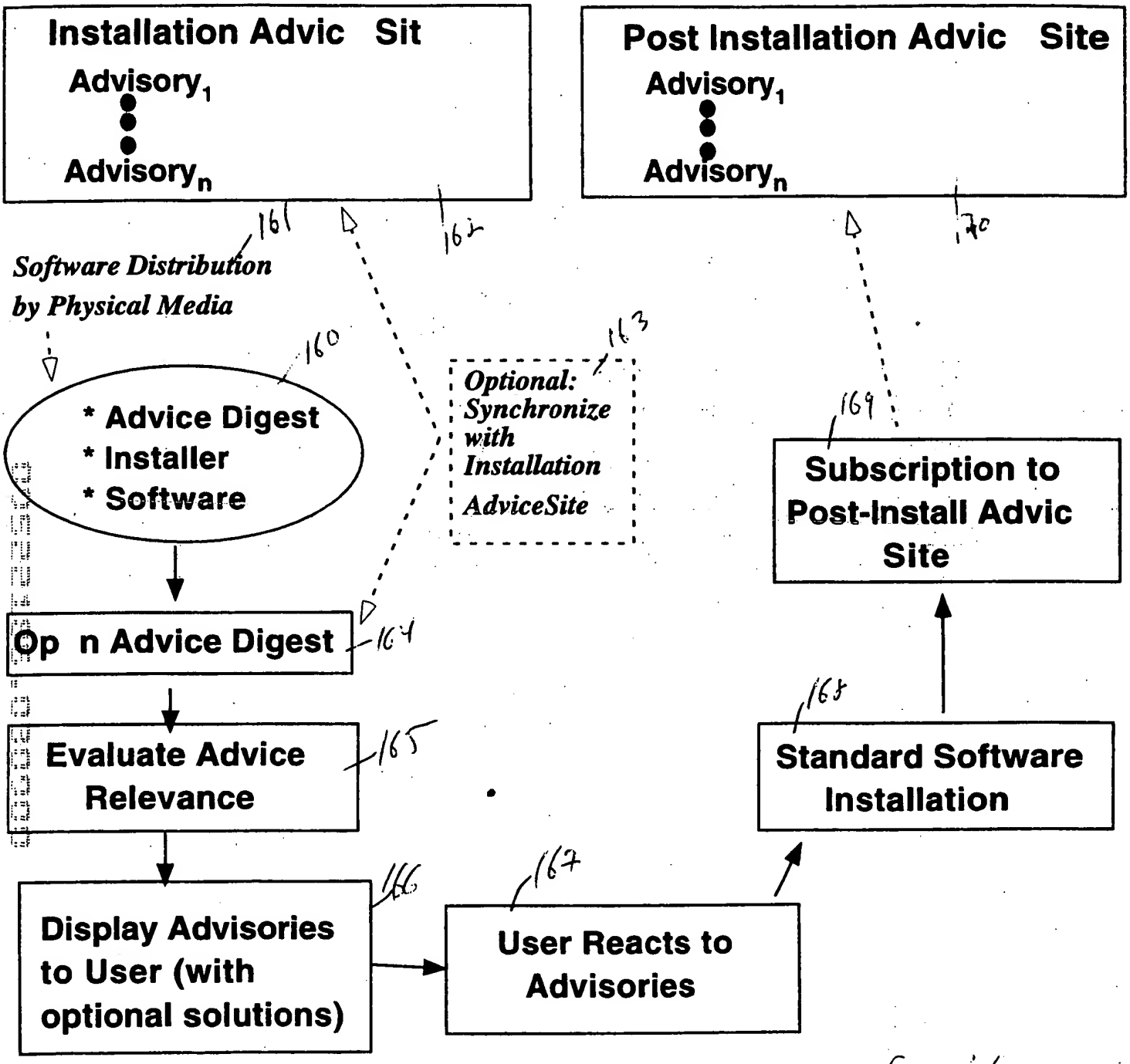

Installation Advic Sit
Advisory1
Advisoryn
Post Installation Advic Site
Advisory1
Advisoryn
161
162
170
Software Distribution by Physical Media
160
163
* Advice Digest
* Installer
* Software
Optional: Synchronize with Installation AdviceSite
169
Subscription to Post-Install Advic Site
Op n Advice Digest
164
Evaluate Advice Relevance
165
168
Standard Software Installation
Display Advisories to User (with optional solutions)
166
167
User Reacts to Advisories

Fig. 16

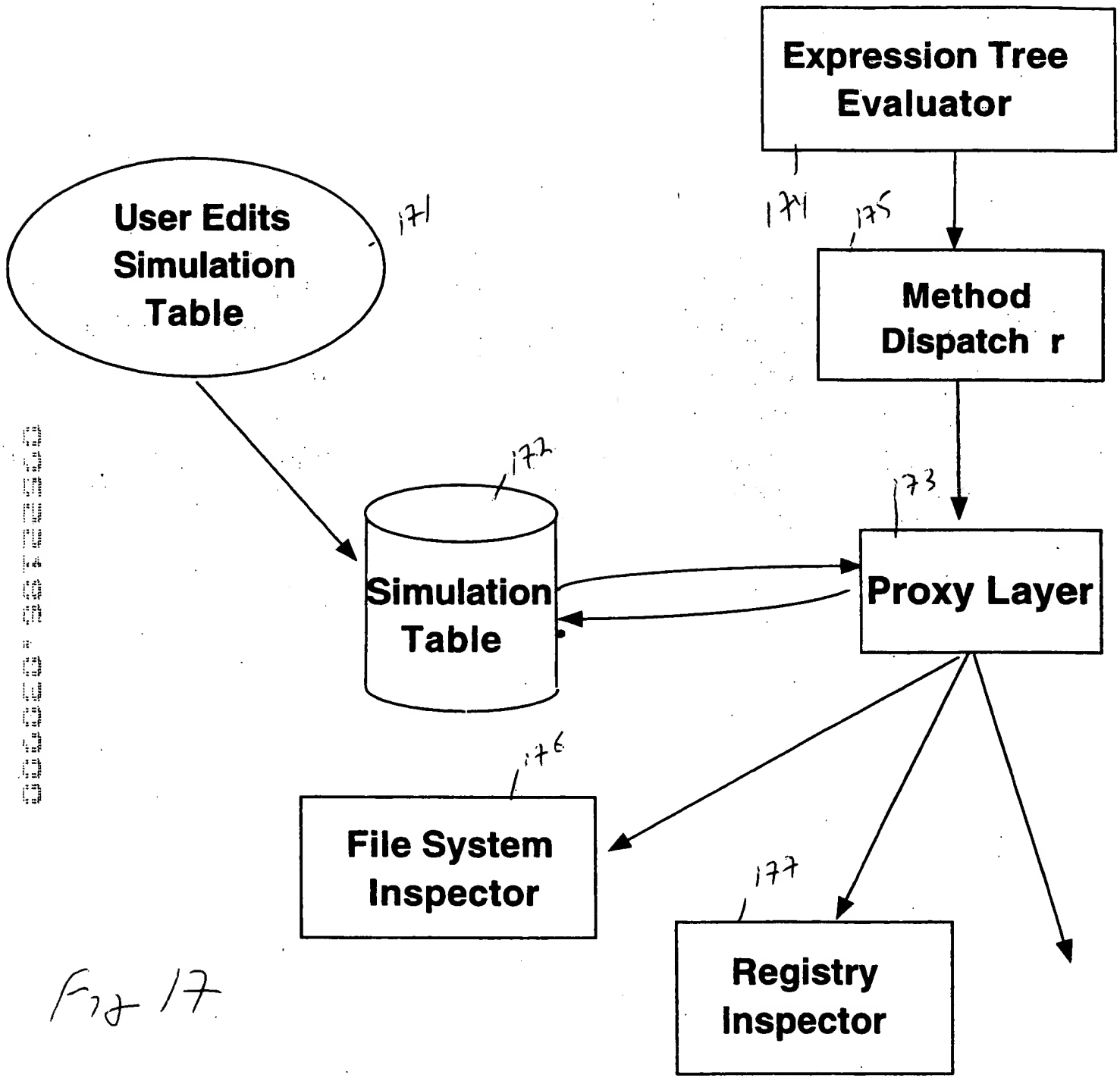

Expression Tree Evaluator
User Edits Simulation Table
171
171
175
Method Dispatch r
172
173
Simulation Table
Proxy Layer
176
File System Inspector
177
Registry Inspector

Fig 17

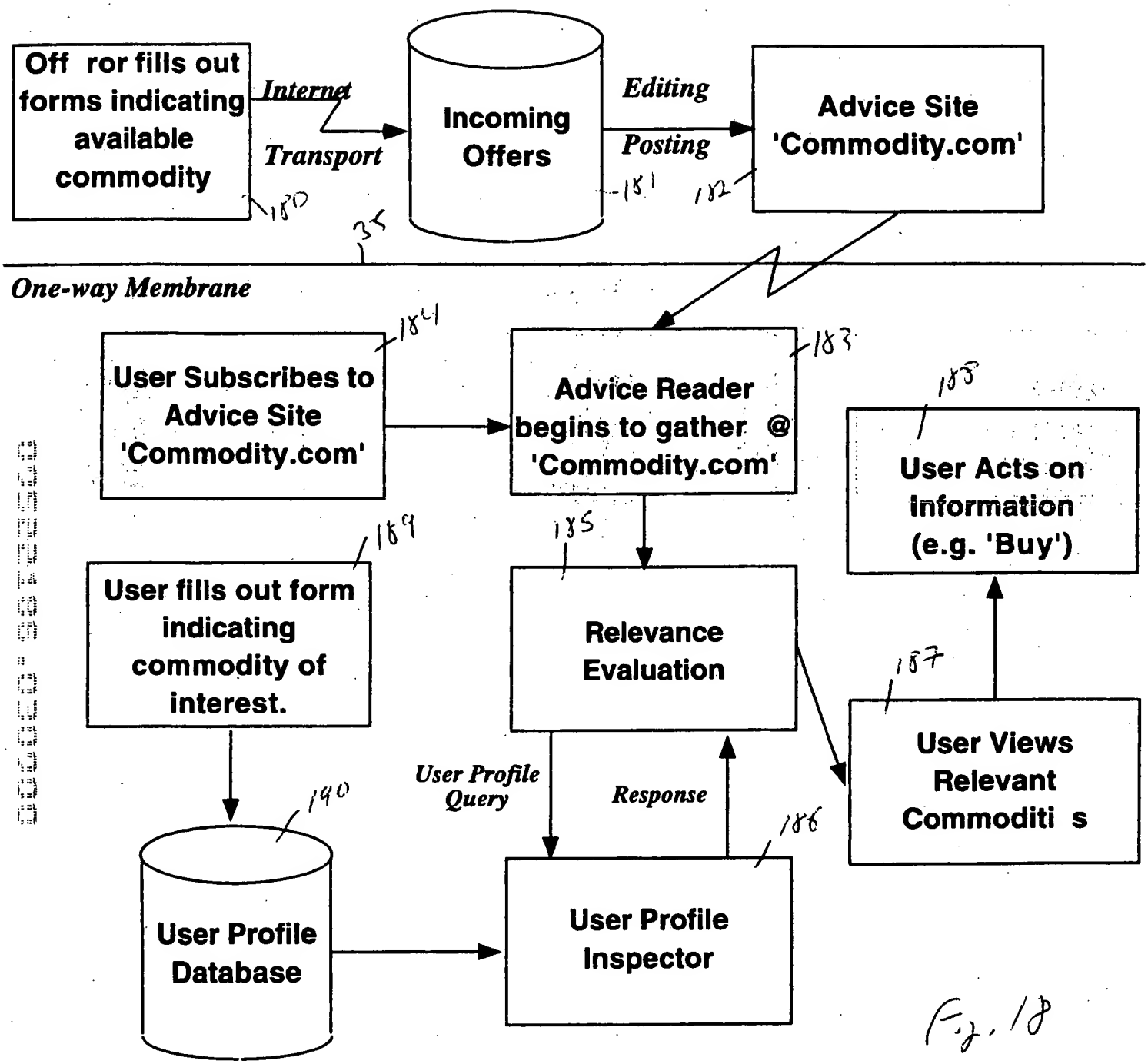
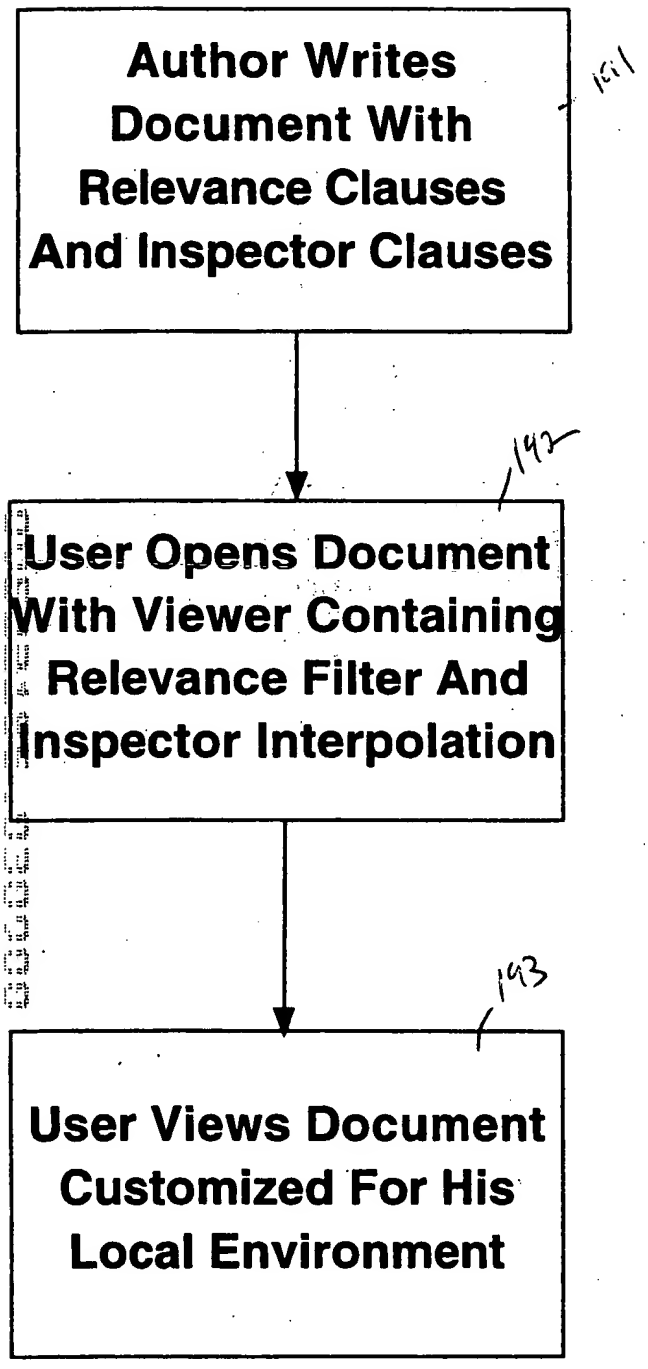

Off ror fills out forms indicating available commodity
Internet
Transport
180
Incoming Offers
Editing
Posting
181
182
Advice Site 'Commodity.com'
35
One-way Membrane
User Subscribes to Advice Site 'Commodity.com'
184
Advice Reader begins to gather @ 'Commodity.com'
183
User Acts on Information (e.g. 'Buy')
188
User fills out form indicating commodity of interest.
189
185
Relevance Evaluation
187
User Views Relevant Commoditi s
User Profile Query
Response
190
186
User Profile Database
User Profile Inspector

Fig. 1B



Exampl Source

```
$IF(Computer='Macintosh'){
As a Macintosh user, you
know how to navigate in the
Finder, in particular how to
use the Find File command .
}
$IF(Computer='PC'){
As a PC user, you know how
to navigate in the shell, in
particular how to use the
Start button .
}
```

194

Example Source

```
Your Machine has $$Size
of RAM$$ Mb of Memory.
Your Hard Disk has $$Size of
Boot Volume$$ total storage.
```

195

Fig.

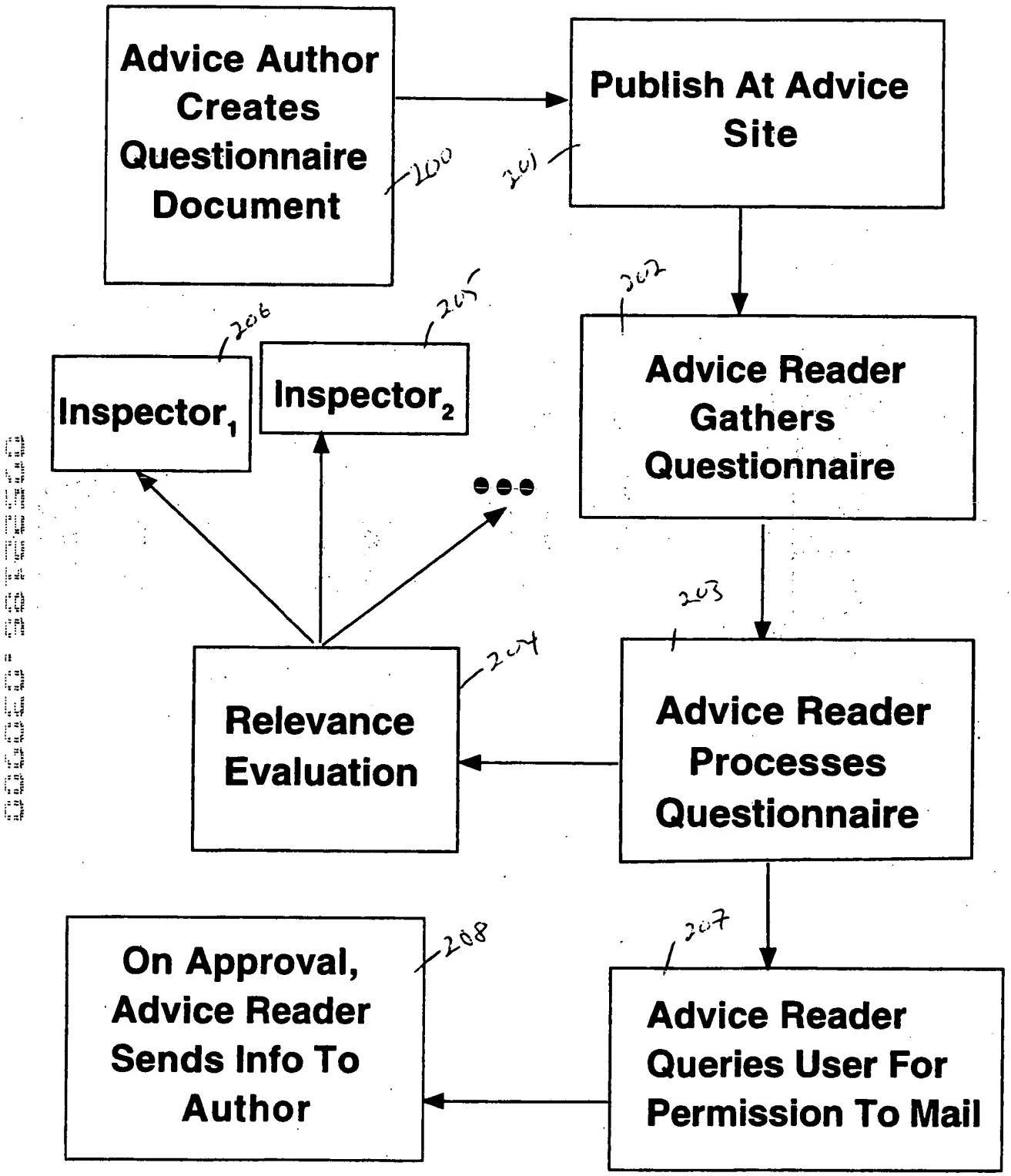

Advice Author Creates Questionnaire Document
200
Publish At Advice Site
201
Advice Reader Gathers Questionnaire
202
Advice Reader Processes Questionnaire
203
Relevance Evaluation
204
Inspector 2
205
Inspector 1
206
Advice Reader Queries User For Permission To Mail
207
On Approval, Advice Reader Sends Info To Author
208

Fig. 2C

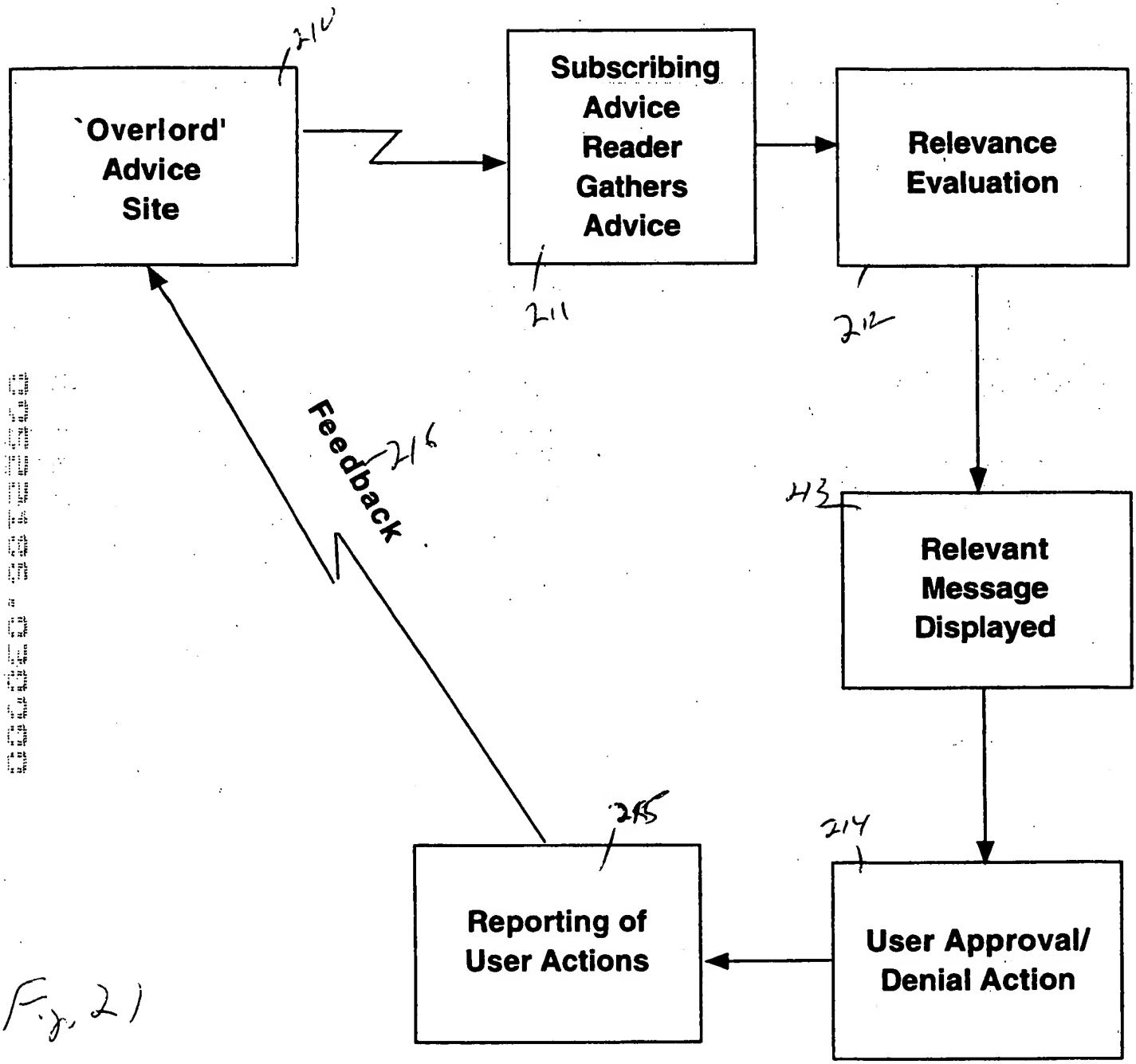

`Overlord' Advice Site
210
Subscribing Advice Reader Gathers Advice
211
Relevance Evaluation
212
Relevant Message Displayed
213
User Approval/ Denial Action
214
Reporting of User Actions
215
Feedback
216

Fig. 2)

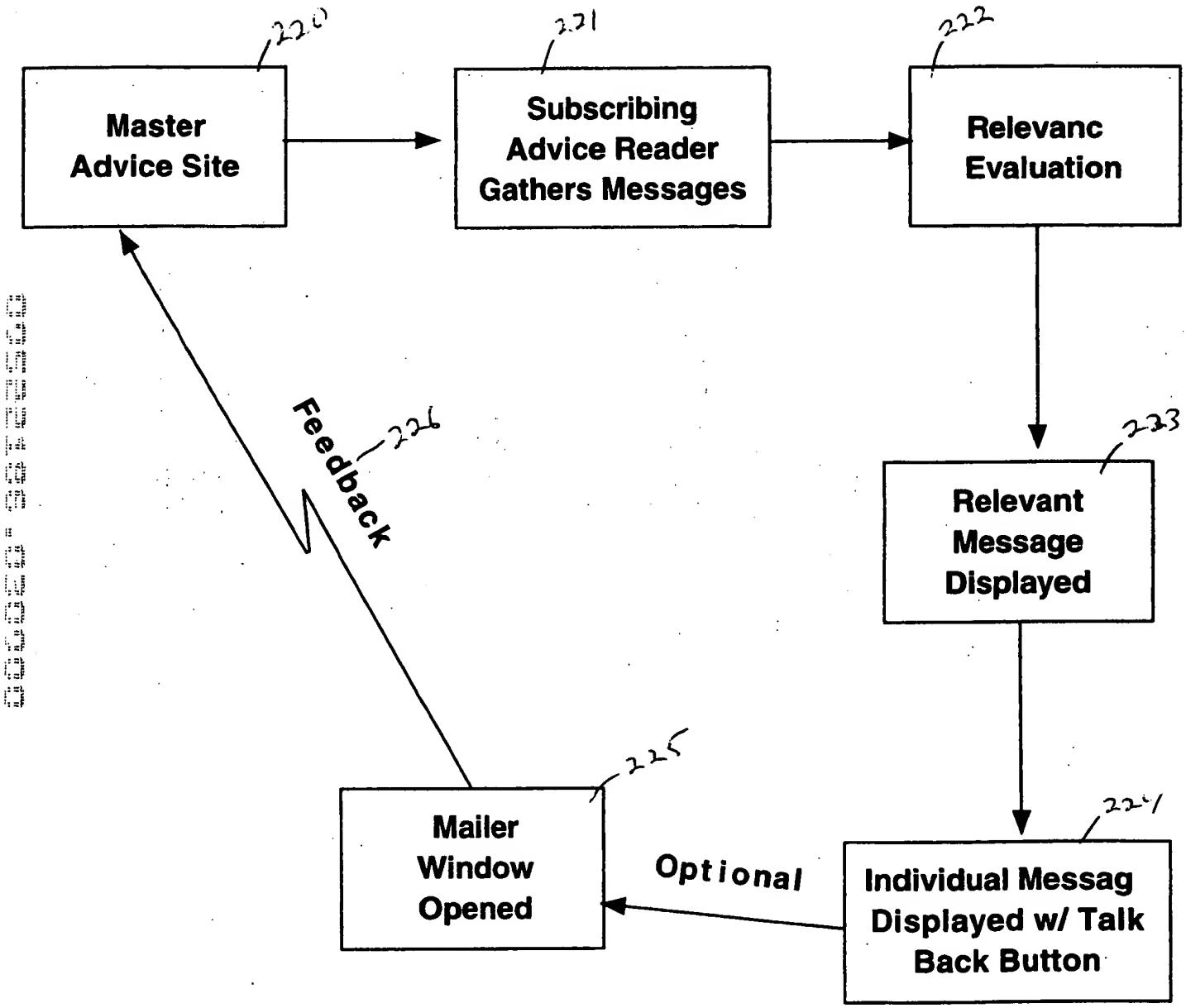

220
Master Advice Site
221
Subscribing Advice Reader Gathers Messages
222
Relevanc Evaluation
223
Relevant Message Displayed
224
Individual Messag Displayed w/ Talk Back Button
Optional
225
Mailer Window Opened
226
Feedback

Fig. 22

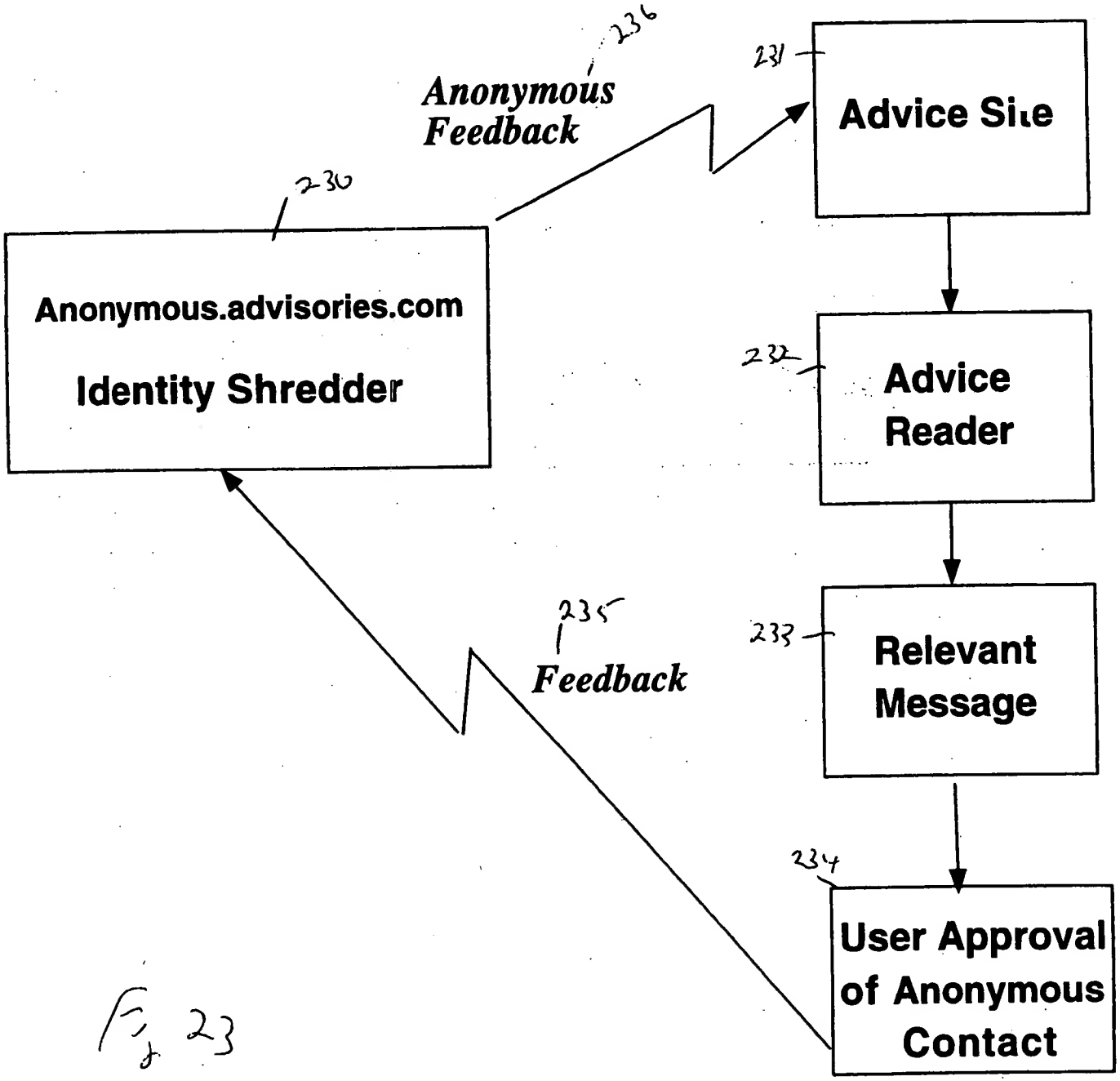

236
Anonymous
Feedback
231
Advice Site
230
Anonymous.advisories.com
Identity Shredder
232
Advice
Reader
235
Feedback
233
Relevant
Message
234
User Approval
of Anonymous
Contact

Fig 23

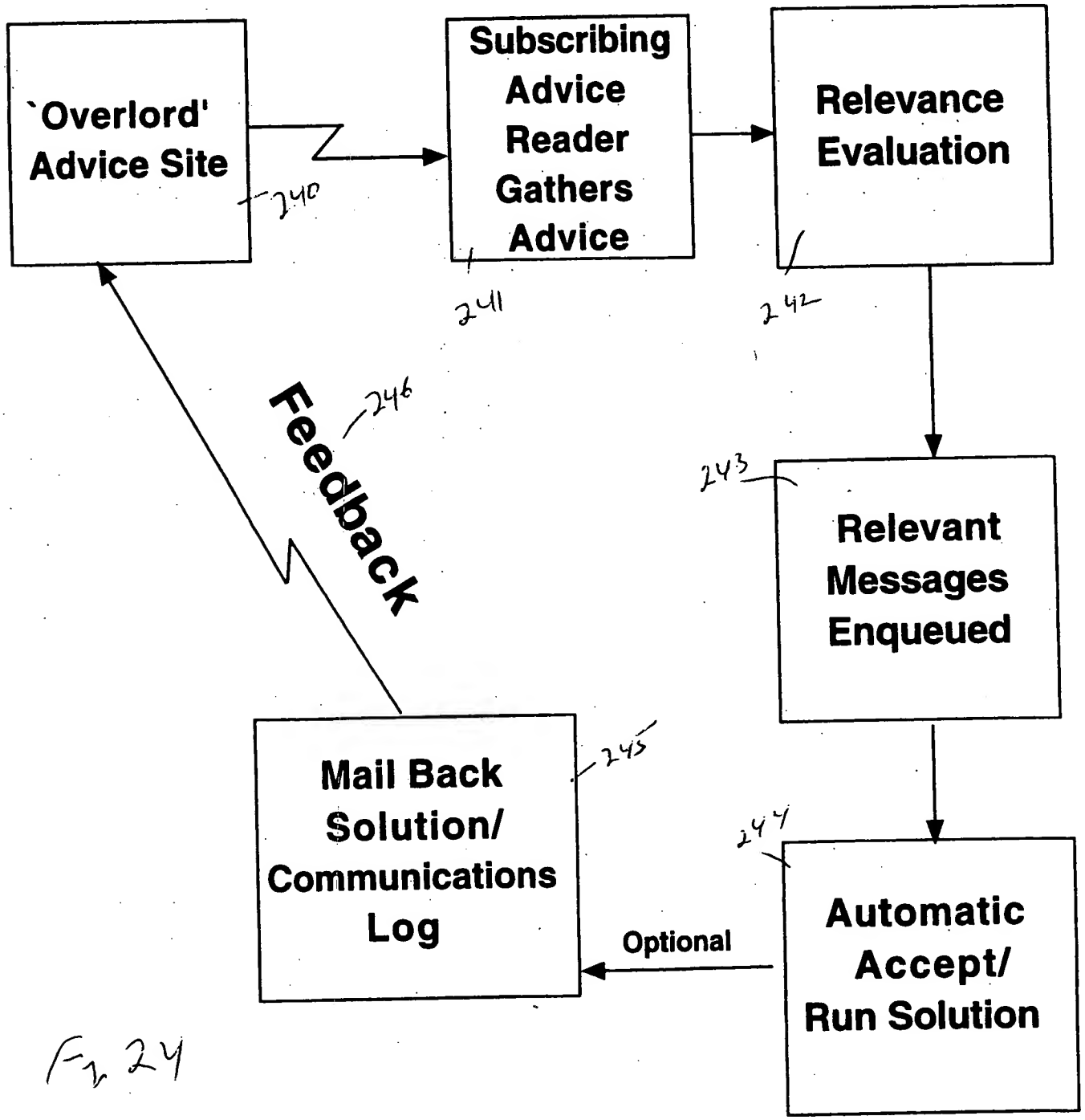

`Overlord' Advice Site
240
Subscribing Advice Reader Gathers Advice
241
Relevance Evaluation
242
Feedback
246
243
Relevant Messages Enqueued
Mail Back Solution/ Communications Log
245
244
Automatic Accept/ Run Solution
Optional

Fig. 24

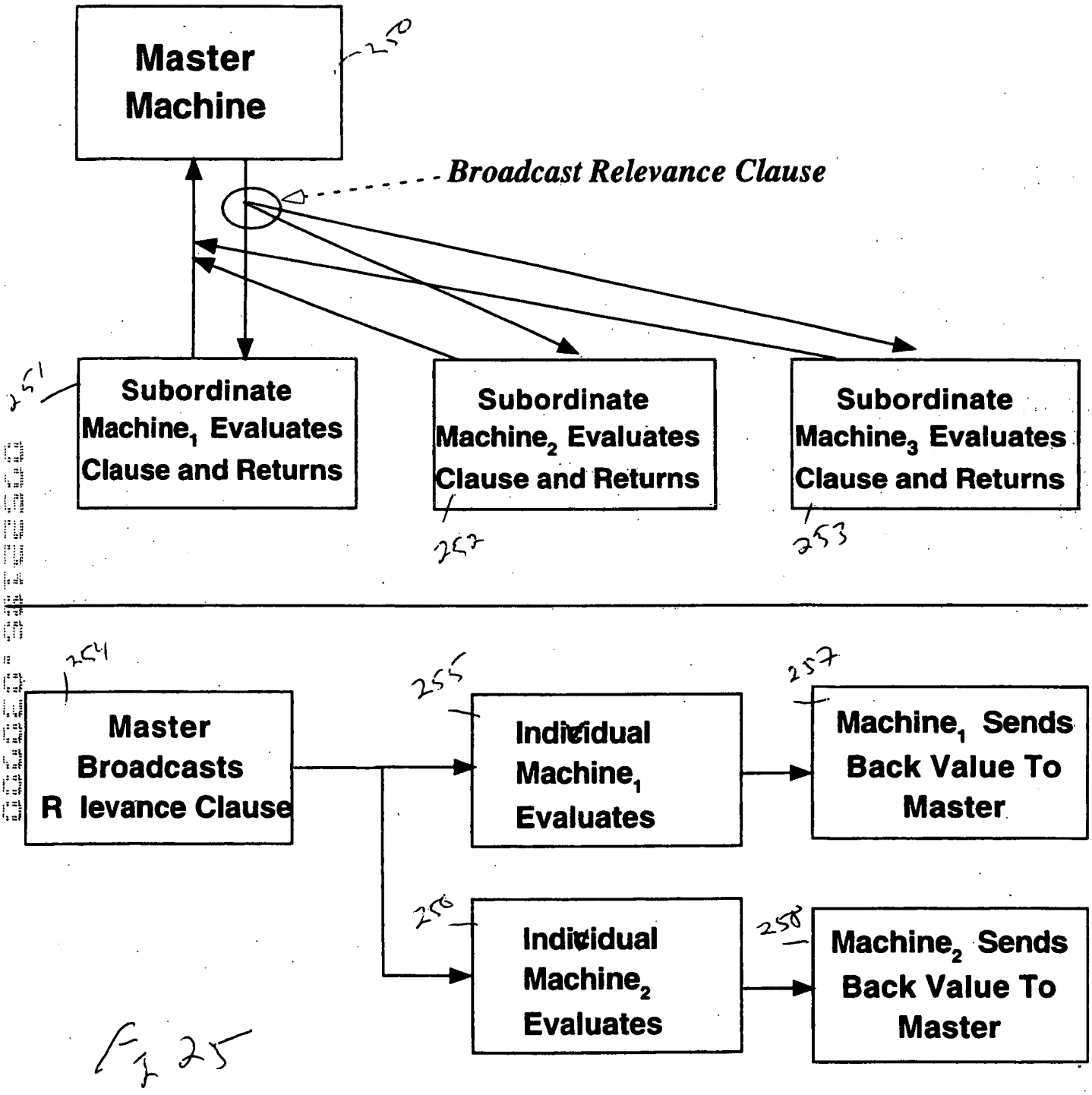

Master Machine
250
Broadcast Relevance Clause
251
Subordinate Machine1 Evaluates Clause and Returns
Subordinate Machine2 Evaluates Clause and Returns
252
Subordinate Machine3 Evaluates Clause and Returns
253
254
Master Broadcasts R levance Clause
255
Individual Machine1 Evaluates
257
Machine1 Sends Back Value To Master
256
Individual Machine2 Evaluates
258
Machine2 Sends Back Value To Master

Fig 25